

**Product Name:** EIDD 1931

**Catalog No.:** 7231

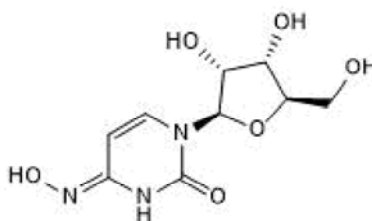
**Batch No.:** 1

CAS Number: 3258-02-4

IUPAC Name: *N*-Hydroxycytidine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>9</sub>H<sub>13</sub>N<sub>3</sub>O<sub>6</sub>.H<sub>2</sub>O  
**Batch Molecular Weight:** 277.24  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
water to 50 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 100.0% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	38.99	5.45	15.16
Found	38.69	5.48	15.05

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**Product Name:** EIDD 1931

**Catalog No.:** 7231

**1**

CAS Number: 3258-02-4

IUPAC Name: N-Hydroxycytidine

**Description:**

EIDD 1931 is a viral RNA-dependent RNA polymerase (RdRP) inhibitor and broad spectrum antiviral nucleotide. Inhibits replication of a range of RNA viruses including influenza, Ebola, HCV, and human and zoonotic coronaviruses (IC<sub>50</sub> values are 0.15 and 0.3 μM for inhibition of MERS-CoV and SARS-CoV-2 replication in vitro). Increases mutation rates and induces lethal mutagenesis in viral RNA. Also inhibits replication of mouse hepatitis virus with mutations conferring resistance to remdesivir (Cat. No. 7226).

**Physical and Chemical Properties:**

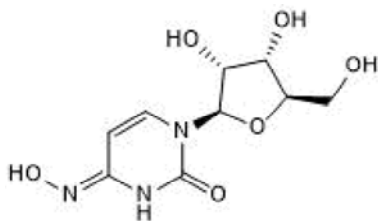
Batch Molecular Formula: C<sub>9</sub>H<sub>13</sub>N<sub>3</sub>O<sub>6</sub>.H<sub>2</sub>O

Batch Molecular Weight: 277.24

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Sheahan *et al* (2020)** An orally bioavailable broad-spectrum antiviral inhibits SARS-CoV-2 in human airway epithelial cell cultures and multiple coronaviruses in mice. *Sci.Transl.Med.* **12**. PMID: 32253226.

**Urakova *et al* (2018)** β-d-N<sup>4</sup>-hydroxycytidine is a potent anti-alphavirus compound that induces a high level of mutations in the viral genome. *J.Virol.* **92**. PMID: 29167335.

**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM

water to 50 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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